Maximin Sudoku

Place a digit from 1 to 9 into each of the empty squares so that each digit appears exactly once in each of the rows, columns and the nine outlined 3x3 regions.

A number at the edge of the diagram indicates the difference between the highest and the lowest number in the first three cells in the corresponding row or column.

	5	2	8	4	7	4	4	6	2	
3	3	4	1	7	8	2	5	9	6	4
6	2	5	8	9	4	6	1	3	7	6
3	7	6	9	5	1	3	2	4	8	6
6	1	3	7	2	6	9	8	5	4	4
4	4	8	5	3	7	1	6	2	9	7
7	9	2	6	8	5	4	3	7	1	6
4	5	1	2	6	9	7	4	8	3	5
5	8	9	4	1	3	5	7	6	2	5
4	6	7	3	4	2	8	9	1	5	8
	3	8	2	5	7	3	5	7	3	

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